



## DECLARATION AND PETITION

As a below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention NOISE REDUCTION FOR SPECTROSCOPIC SIGNAL PROCESSING, the specification of which was filed on January 27, 2004 and assigned application serial no. 10/766,599.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 C.F.R. § 1.56(a).

We hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application of which priority is claimed.

### PRIOR FOREIGN APPLICATION(S)

Number	Country	Filing Date	Priority Claimed?
NONE			

### PRIOR UNITED STATES PROVISIONAL APPLICATIONS

We hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Serial No.	Filing Date	Status
60/443,086	January 28, 2003	Provisional
60/445,671	February 7, 2003	Provisional

### PRIOR UNITED STATES APPLICATION(S)

We hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, we acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status
NONE		

We hereby declare: All statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true. These statements were made with the knowledge that willful false statements and the like so made are punishable by

fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Wherefore we pray that Letters Patent be granted to me for the invention or discovery described and claimed in the foregoing specification and claims, and we hereby subscribe our names to the foregoing specification and claims, declaration, and this petition.

**Full name of first inventor:** Howard S. Taylor

Inventor's signature Howard S Taylor Date 6-29-04 \*

Residence: Los Angeles, California

Citizenship: United States of America

Post Office Address: 210 S. Lorraine Blvd.  
Los Angeles, California 90004

**Full name of second inventor:** Sharif Kuniyev

Inventor's signature Sharif Kuniyev Date 6-29-04 \*

Residence: Los Angeles, California

Citizenship: Russia

Post Office Address: 722 S. St. Andrews Place, #16  
Los Angeles, California 90005



Please type a plus sign (+) inside this box →

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/766,599
Filing Date	January 27, 2004
First Named Inventor	TAYLOR, Howard S. et al.
Title	NNOISE REDUCTION FOR SPECTROSCOPIC SIGNAL PROCESSING
Group Art Unit	Not known
Examiner Name	Not known
Attorney Docket Number	28080-119

I hereby appoint:

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I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

### SIGNATURE of Applicant or Assignee of Record

Name Dennis J. Dougherty, Senior Vice-President of Administration, USC

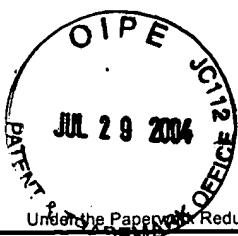
Signature Dennis J. Dougherty

Date July 7, 2004

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: TAYLOR et al. / UNIVERSITY OF SOUTHERN CALIFORNIAApplication No./Patent No.: 10/766,599 Filed/Issue Date: January 27, 2004Entitled: NOISE REDUCTION FOR SPECTROSCOPIC SIGNAL PROCESSINGUniversity of Southern California, a Nonprofit corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest; or
2.  an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

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The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

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The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

July 7, 2004  
Date

Dennis J. Dougherty

Typed or printed name

Dennis J. Dougherty

Signature

Senior Vice-President of Administration, USC

Title

# McDermott Will&Emery

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Munich New York Orange County Rome San Diego Silicon Valley Washington, D.C.



200

Date: July 26, 2004

Time Sent:

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Assignment Recordation Division	USPTO	(703) 306-5995	(703) 308-9723

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<b>From:</b>	Marc E. Brown	<i>Direct Phone:</i>	(310) 788-1569
<i>E-Mail:</i>	meb@mwe.com		
<i>Sent By:</i>	Jessica Brown	<i>Direct Phone:</i>	(310) 284-6173
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		<i>Number of Pages, Including Cover:</i>	4

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**Re:** US Patent Application Serial No. 10/766,599

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**Message:**

Please find the Assignment for patent application serial no. 10/766,599 herewith for recordation.

Thank you for your attention to this matter.

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**U.S. practice conducted through McDermott Will & Emery LLP.**  
2049 Century Park East 34th Floor Los Angeles, California 90067-3208 Telephone: 310.277.4110

JUL 29 2004

Docket No. 28080-119

RECORDATION FORM COVER SHEET  
PATENTS ONLY

To the Hon. Commissioner of Patents &amp; Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying parties:  <b>Howard S. Taylor and Sharif Kunikeev</b>		2. Name and address of receiving party(ies)  Name <u>University of Southern California</u>  Internal Address: _____  Street Address: <u>3716 South Hope Street, Suite 313</u>  _____
3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other _____		City: <u>Los Angeles</u> State <u>California</u> ZIP <u>90007-4344</u>  Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Execution Date: <u>July 6, 2004</u>		
4. Application number(s) or patent numbers:  If this document is being filed together with a new application, the execution date of the application is: _____		
A. Patent Application No.(s) <u>10/766,599</u>		B. Patent No.(s)
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address party to whom correspondence concerning document should be mailed:  Name <u>Marc E. Brown</u>  <u>McDermott, Will &amp; Emery</u>  Internal Address: <u>34th Floor</u>  Street Address <u>2049 Century Park East</u>		6. Total number of applications and patents involved: <u>1</u>
City: <u>Los Angeles</u> State <u>CA</u> ZIP <u>90067</u>		7. Total fee (37 CFR 3.41) <u>\$40.00</u>  <input type="checkbox"/> Enclosed  <input checked="" type="checkbox"/> Please charge to deposit account
8. Deposit Account number: <u>501946</u>		
(Attach duplicate copy of this page if paying by deposit account)		

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Marc E. Brown

Name of Person Signing

Signature

July 26, 2004

Total number of pages including cover sheet, attachments, and document: 3

## ASSIGNMENT

(Joint Inventors)

WHEREAS, we, Howard S. Taylor and Sharif Kunikeev, ("ASSIGNORS") have invented "NOISE REDUCTION FOR SPECTROSCOPIC SIGNAL PROCESSING" ("Invention") for which an application for patent ("Application") was filed in the United States Patent Office on January 27, 2004 and assigned Application Serial Number 10/766,599, and which claims priority to United States Provisional Application Serial No. 60/443,086, filed on January 28, 2003, entitled "Producing Windowed Noise Reduced Signals for Fourier and High Resolution Signal Processing for Spectroscopies such as NMR, ICR, etc.,," and U.S. provisional application, Serial No. 445,671, filed on February 7, 2003, entitled "Producing Windowed Noise Reduced Signals for Fourier and High Resolution Signal Processing for Spectroscopies such as NMR, ICR, etc."

WHEREAS, we are the joint inventors of the Invention;

WHEREAS, the University of Southern California, (ASSIGNEE) is a corporation organized and existing under the laws of California having a place of business at 3716 South Hope Street, Suite 313, Los Angeles, CA 90007-4344;

WHEREAS, ASSIGNEE desires to acquire the entire right, title and interest in and to the Invention and Application and to all patents based on the Application;

NOW, THEREFORE, for valuable consideration, the receipt and legal sufficiency of which ASSIGNORS acknowledge, ASSIGNORS have and hereby do assign and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest in and to:

1. The Invention;
2. The Application;
3. All applications based on or claiming priority from the Application, including all divisionals and continuations ("Application Family");
4. All patents which may be granted on the Invention, Application and Application Family by the United States of America, its territories and possessions, and by all foreign countries, including all priority rights and all reissues thereof ("Patents"); and
5. The right to sue for past infringement of the Invention, Application, Application Family and Patents.

ASSIGNORS agree, at the request of ASSIGNEE, to sign any and all papers reasonably needed to file and prosecute the Application and Application Family, to obtain the Patents, and to perfect and vest in ASSIGNEE the entire right, title and interest in the Invention, Application, Application Family and Patents. ASSIGNORS also agree to provide assistance that is reasonably needed to prepare and prosecute the Application and Application Family.

ASSIGNORS authorize and empower ASSIGNEE, its successors and assigns, to apply for and obtain, in its own name, the Application, Application Family and Patents before competent International Authorities, including the World Intellectual Property Organization and

in any and all foreign countries in which applications for patents can be made or patents obtained.

Dated: 7-06-04, 2004

Howard S. Taylor  
Name: Howard S. Taylor  
Address: 210 S. Lorraine Blvd.  
Los Angeles, CA 90004

STATE OF California )  
 ) ss.

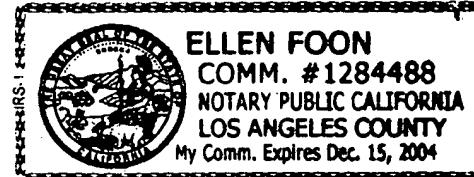
COUNTY OF Los Angeles )

On 07/06/2004, 2004 before Ellen Foon personally appeared Howard S. Taylor,  personally known to me or  proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Ellen Foon  
Notary Public

(SEAL)



Dated: 7-06-04, 2004

Sharif Kunikeev  
Name: Sharif Kunikeev  
Address: 722 S. St. Andrews Place, #16  
Los Angeles, CA 90005

STATE OF California )  
 ) ss.

COUNTY OF Los Angeles )

On 07/06, 2004 before Ellen Foon personally appeared Sharif Kunikeev,  personally known to me or  proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Ellen Foon  
Notary Public

(SEAL)

